EOSDIS Core System Project

Interim Release One (Ir1) Version Description Document (VDD) for the ECS Project

Version 1.01

January 31, 1996

Hughes Information Technology Systems
Upper Marlboro, Maryland

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Prepared Under Contract NAS5-60000

SUBMITTED BY

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Preface

This document describes the configuration and the delta changes to Interim Release One (Ir1) depicted in Version 1.00 (see VDD, 814-RD-004-001) and will be referred to as Version 1.01. This attachment reflects updates to software released as of January 3, 1996. It is not a formal deliverable and does not require Government approval. However, it has been placed under configuration control by the ECS CCB. Changes to this document shall be made by document change notice (DCN) or by complete revision.

Any questions regarding distribution should be addressed to:

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Abstract

This document describes the delivery contents of Ir1 (also referred to as *the product*) components including Commercial Off-The-Shelf (COTS) hardware and software (*Ir1 COTS*), Version 1.00 of custom Ir1 ECS software (*Ir1 Software*) and accompanying documentation.

The purpose of this document is to describe the contents of the Ir1 delivery. It briefly describes the capabilities of the product, provides an inventory of the delivery, lists unresolved problems, and addresses issues such as special operating instructions, system limitations, and disclaimer notices for public domain software used in the product.

This document describes the configuration and the delta changes to Interim Release One (Ir1) depicted in Version 1.00 (see VDD, 814-RD-004-001) and will be referred to as Version 1.01. This attachment reflects updates to software released as of January 3, 1996.

Keywords: version, description, release, software, Ir1, hardware, deliver, CCB, problems, instructions, TRMM, SSI&T, inventory

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Document History			
Document Number	**Status/Issue**	**Publication Date**	**CCR Number**
814-RD-004-001	Original, Version 1.00	January 3, 1996	96-0044
814-RD-004-002	Version 1.01	January 31, 1996	96-0107

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IR1, Version 1.01 IR1_CSS_SGI32_122095.tar.Z Tar File Listing

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IR1, Version 1.01 IR1_CSS_SGI_122095.tar.Z Tar File Listing

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5.2 Ir1 Non-Conformance Reports (Closed Status)

NCRs closed as of January 31, 1996

```
Problem Id: ECSed01587
Severity:   2
Title:      Processing halts when all requested files are not
found

Problem Id: ECSed01629
Severity:   2
Title:      Apparently not installed on sgi for IR1

Problem Id: ECSed01597
Severity:   3
Title:      Science S/W in ClearCase not accessible on SGI
from PDPS execution proto

Problem Id: ECSed01603
Severity:   3
Title:      Env var file does not work in C-shell

Problem Id: ECSed01632
Severity:   3
Title:      Last chance threshold procedure not
installed/Autosys database

Problem Id: ECSed01574
Severity:   4
Title:      Headings are truncated in the Binary File
Difference Assistant Gui

Problem Id: ECSed01577
Severity:   4
Title:      Program coredumps in certain situations

Problem Id: ECSed01594
Severity:   4
Title:      Users path is made 'ridiculously long'

Problem Id: ECSed01598
Severity:   4
Title:      Can't install man page for xdiff

Problem Id: ECSed01601
Severity:   4
Title:      Install script doesn't copy PGSMSG files to all
Tkit dirs
```

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```
Problem Id: ECSed01611
Severity:    4
Title:       Bin Diff makefiles need Toolkit include dir in
path

Problem Id: ECSed01583
Severity:    5
Title:       'Select' Button Disappears After Clicking
```

5.3 Ir1 Non-Conformance Reports (Open Status)

NCRs still opened as of January 31, 1996

```
Problem Id: ECSed01623
Severity:    2
Title:       Autosys doesn't recognize processing system
fault.

Problem Id: ECSed01631
Severity:    2
Title:       Sybase tables must be moved

Problem Id: ECSed01633
Severity:    3
Title:       Missing Manuals/Documentation

Problem Id: ECSed01615
Severity:    3
Title:       Errors with Wabi when editing files and then
saving them.

Problem Id: ECSed01610
Severity:    3
Title:       Closing Acrobat incorrectly will terminate
display

Problem Id: ECSed01626
Severity:    3
Title:       Error in sending DDN from Ingest to Gateway

Problem Id: ECSed01627
Severity:    3
Title:       FTP - ERRORS during Ingest of data files

Problem Id: ECSed01637
Severity:    3
Title:       Memory on Xterms prohibiting efficient testing

Problem Id: ECSed01639
Severity:    3
Title:       HP OpenView not configured at GSFC, LaRC, and
EDC.
```

Problem Id: ECSed01618
Severity: 3
Title: cdslookup by group failure for SessionServer

Problem Id: ECSed01619
Severity: 3
Title: Mail Msg Can Not Be Browsed on ait1sunlarc

Problem Id: ECSed01628
Severity: 3
Title: FTP of files occurs twice during the Ingest
process

P**roblem Id: ECSed01640**
Severity: 3
Title: Event_Logger data base is not configured properly
at GSFC, LaRc, EDC.

Problem Id: ECSed01636
Severity: 3
Title: Placement of HDF file via EOSView outside of
window space.

Problem Id: ECSed01634
Severity: 3
Title: DpAtRunProfile.sh, DpAtEnv.csh set EDF-specific
values

Problem Id: ECSed01600
Severity: 4
Title: GUI exits unexpectedly after Motif "close" button
selected

Problem Id: ECSed01582
Severity: 3
Title: Autosys Console Displays Incorrect Job Status

Problem Id: ECSed01564
Severity: 4
Title: Line on Alarm MGr Window is Chopped Partially

Problem Id: ECSed01606
Severity: 4
Title: Saving of Mail Message generates errors

Appendix F. Archive Tapes

These magnetic tapes are used to archive the delivered baseline configuration of COTS software on the host machines.

151-TD-001-001
Label: Ir1 (SGI PC-XL/SPR)   Date: 1/16/96
Baseline Dump Tape
/ /dev/root
/usr /dev/usr
Format: dump obsdf 126 1300 54000

151-TD-002-001
Label: Ir1 (Indego2 / Ingest)   Date: 1/16/96
Baseline Dump Tape
/ /dev/root
/usr /dev/usr
Format: dump obsdf 126 1300 54000

151-TD-003-001
Label: Ir1 (AI&T Server/DBMS)   Date:1/16/96
Baseline Dump Tape
>>> 5.0gbyte format (high density) <<<
/ /dev/rdsk/c0t3d0s0
/usr /dev/rdsk/c0t3d0s6
/var /dev/rdsk/c0t3d0s4
/opt   /dev/rdsk/c0t3d0s5
/data   /dev/rdsk/c0t3d0s3
Format: usfdump 0f

151-TD-004-001
Label: Ir1 (MSS/SUN Server)   Date:1/16/96
Baseline Dump Tape
>>> 5.0gbyte format (high density) <<<
/ /dev/rdsk/c0t3d0s0
/usr /dev/rdsk/c0t3d0s6
/var /dev/rdsk/c0t3d0s4
/opt   /dev/rdsk/c0t3d0s5
/data   /dev/rdsk/c0t3d0s3
Format: usfdump 0f

The following magnetic tape is used to archive the delivered baseline configuration of the developed software.

904-PR-007-001
Label: ECS IR1 Distribution   Date: Jan 23, 1996
>>> 5.0gbyte format (high density) <<<
IR1_CSS_HP_122095.tar.Z   IR1_CSS_SGI32_122095.tar.Z
IR1_CSS_SGI_122095.tar.Z   IR1_CSS_SGI64_122095.tar.Z
IR1_CSS_SUN5_012396.tar.Z IR1_DSS_SUN5_122095.tar.Z
IR1_MSS_HP_011196.tar.Z   IR1_INGEST_SGI_122095.tar.Z
IR1_MSS_SGI_011196.tar.Z   IR1_INGEST_SUN5_122095.tar.Z
IR1_MSS_SUN5_011196.tar.Z IR1_PDPS_AIT_SGI_011096.tar.Z
IR1_TOOLKIT_122995.tar.Z IR1_PDPS_AIT_SUN5_011096.tar.Z
HDF3.3r4.tar.Z   IR1_TOOLKIT_110995-AAdata.tar.Z
All documents (VDD and User's Guide)
Command to copy file to disk: dd if=## of=file.tar
Command to untar tar file: tar xvf file.tar
where ## = your tape device and file.tar = Name you give tar file
You must uncompress the .Z files in file.tar
(uncompress IR1_CSS_HP_122095.tar.Z)

904-PR-007-002
Label: ECS IR1 Distribution   Date: Jan 31, 1996
>>> 5.0gbyte format (high density) <<<
HDF3.3r4.tar.Z
IR1_CSS_HP_122095.tar.Z
IR1_CSS_SGI32_122095.tar.Z
IR1_CSS_SGI64_122095.tar.Z
IR1_CSS_SGI_122095.tar.Z
IR1_CSS_SUN5_012396.tar.Z
IR1_DSS_SUN5_122095.tar.Z
IR1_INGEST_SGI_122095.tar.Z
IR1_INGEST_SUN5_122095.tar.Z
IR1_MSS_HP_011196.tar.Z
IR1_MSS_SGI_011196.tar.Z
IR1_MSS_SUN5_011196.tar.Z
IR1_PDPS_AIT_SGI_012696.tar.Z
IR1_PDPS_AIT_SUN5_012696.tar.Z
IR1_TOOLKIT_110995-AAdata.tar.Z
IR1_TOOLKIT_122995.tar.Z
All documents (VDD and User's Guide)
Command to copy file to disk: dd if=## of=file.tar
Command to untar tar file: tar xvf file.tar
where ## = your tape device and
   file.tar = Name you give tar file
You must uncompress the .Z files in file.tar
(uncompress IR1_CSS_HP_122095.tar.Z)

Abbreviations and Acronyms

A.A.   Astronomical Almanac

AA   Ancillary Data Access

AIRS   Atmospheric Infrared Sounder

API   Application Program Interface

APID   Application Process Identifier

ASTER   Advanced Spaceborne Thermal Emission and Reflection Radiometer

BNF   Bachus-Nauer Form

CBP   Celestial Body Position

CCR   Configuration Change Request

CCSDS   Consultative Committee on Space Data Systems

CDRL   Contract Deliverable Requirements List

CERES   Clouds and Earth Radiant Energy System

COTS   Commercial off-the-shelf Software

CSMS   Communications and Systems Management Segment (ECS)

CRC   Cyclic Redundancy Code

CSC   Coordinate System Conversion

CUC   Constant and Unit Conversions

DAAC   Distributed Active Archive Center

DCE   Distributed Computing Environment

DCN   Document Change Notice

DCW   Digital Chart World

DDF   Data Distribution Facility

DEM   Digital Elevation Model

DDTs   Distributed Defect Tracking system

DPFT   Data Processing Focus Team

DTM   Digital Terrain Model

ECI   Earth Centered Inertial

ECR   Earth Centered Rotating

ECS   EOSDIS Core System

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EDHS	ECS Data Handling System
EDOS	EOS Data and Operations System
EOS	Earth Observing System
EOSAM	EOS AM Project (morning spacecraft series)
EOSDIS	EOS Data and Information System
EOSPM	EOS PM Project (afternoon spacecraft series)
EPH	Ephemeris Data Access
ESDIS	Earth Science Data and Information System
ET	Ephemeris Tool
FDF	Flight Dynamics Facility
FOV	Field-of-View
ftp	file ransfer protocol
GAST	Greenwich Apparent Sidereal Time
GCT	Geo-Coordinate Transformation
GMST	Greenwich Mean Sidereal Time
GPS	Global Positioning System
GSFC	Goddard Space Flight Center
HAIS	Hughes Applied Information Systems
HDF	Hierarchical Data Format
HITC	Hughes Information Technology Company
http	hypertext transport protocol
I&T	Integration & Test
I/O	Input/Output
IEEE	Institute of Electrical and Electronic Engineers
IMS	Information Management System (ECS)
IWG	Investigator Working Group
JPL	Jet Propulsion Laboratory
LaRC	Langley Reseaarch Center
M&O	Maintaince and Operation
MCF	Metada Configuration File
MDUE	Missing Data Unit Entry
MEM	Memory Management

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MET	Metadata
MODIS	Moderate-Resolution Imaging Spectroradiometer
MSFC	Marshall Space Flight Center
NASA	National Aeronautics and Space Administration
NCR	Nonconformance Report
NCSA	National Center for Supercomputer Applications
NESDIS	National Environmental Satellite, Data, and Information Service (NOAA)
netCDF	network Common Data Format
NMC	National Meteorological Center
PACOR	Packet Processor
PC	Process Control
PGE	Product Generation Executive
PCF	Process Control File
PDS	Production Data Set
PDPS	Planning & Data Production System
PCF	Process Control File
PDR	Preliminary Design Review
PGE	Product Generation Executive (formerly Product Generation Executable)
PGS	Product Generation System (ECS)
PGSTK	Product Generation System Toolkit
POSIX	Portable Operating System Interface for Computer Environments
QA	Quality Assurance
QAC	Quality and Accounting Capsule
RDBMS	Relation Data Base Management System
RPC	Remote Procedure Calls
RRDB	Recommended Requirements Database
SCF	Science Computing Facility
SDP	Science Data Production
SES	Scheduling and Execution Subsystem
SDPS	Science Data Processing Segment
SDPF	Science Data Processing Facility
SGI	Silicon Graphics International

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smf	Collection of utilities and library routines used for generating SMFs and manipulating SMF-defined status values and messages
SMF	Status Message File
SPSO	Science Processing Support Office
SSM/I	Special Sensor for Microwave Imaging
TAI	International Atomic Time
TBD	To Be Determined
TD	Time Date Conversion
TDB	Barycentric Dynamical Time
TDRSS	Tracking and Data Relay Satellite System
TDT	Terrestrial Dynamical Time
TLCF	Team Leader Computing Facility
TRMM	Tropical Rainfall Measuring Mission (joint US - Japan)
TSS	(TDRSS) Service Session
UARS	Upper Atmosphere Research Satellite
URL	Universal Research Locator
US	United States
USNO	U.S. Naval Observatory
UT	Universal Time
UTC	Universal Coordinated Time
UTCF	Universal Time Correlation Factor
UTM	Universal Transverse Mercator
VCDU	Virtual Channel Data Unit
VDD	Version Description Document
VPF	Vector Product Format
WWW	World Wide Web

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